IN THE CLAIMS:

1. (Original) A method, comprising:

providing a differential signal; and

performing a calibration of a gain of at least a portion of said differential signal to affect the longitudinal balance associated with said differential signal, performing said calibration comprises:

receiving a first portion of said differential signal and determining a gain associated with said first portion;

receiving a second portion of said differential signal and determining a gain associated with said second portion;

determining a difference between the respective gains of said first and second portions to determine whether said difference is outside a predetermined range of tolerance; and

modifying at least one of said gain of said first portion and said gain of said second portion based upon a determination that said difference is outside said predetermined range of tolerance.

- 2. (Original) The method of claim 1, wherein receiving said signal further comprises receiving a telecommunications signal.
- 3. (Currently Amended) The method of claim [[3]] 1, wherein receiving said telecommunications signal further comprises receiving a tip and a ring signal.

4. (Original) The method of claim 1, wherein performing said calibration further

comprises

determining a gain of said tip signal forward path;

determining a gain of said ring signal forward path;

determining a difference in gain between said gain of said tip signal forward path and

said gain of said ring signal forward path; and

modifying at least one of a gain of a signal associated with said tip signal forward path

and a gain of a signal associated with said ring signal forward path.

5. (Original) The method of claim 4, further comprising modifying said signal

associated with said tip signal forward path and said gain of a signal associated with said ring

signal forward path.

6. (Original) The method of claim 1, wherein determining a difference between the

respective gains of said first and second portions further comprises applying a test load to an

output associated with said first portion.

7. (Canceled)

8. (Original) The method of claim 1, wherein applying said test load further

comprises applying a resistive load.

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9. (Original) An apparatus, comprising:

means for providing a differential signal; and

means for calibrating a gain of at least a portion of said differential signal to affect a longitudinal balance associated with said differential signal, means for performing said calibration comprises:

means for receiving a first portion of said differential signal and determining a gain associated with said first portion;

means for receiving a second portion of said differential signal and determining a gain associated with said second portion;

means for determining a difference between the respective gains of said first and second portions to determine whether said difference is outside a predetermined range of tolerance; and

means for modifying at least one of said gain of said first portion and said gain of said second portion based upon a determination that said difference is outside said predetermined range of tolerance.

10. (Original) An apparatus, comprising:

- a first amplifier to receive a first portion of a differential signal and a second amplifier to receive a second portion of said differential signal to generate a differential output signal; and
- a calibration unit to determine a difference between the gain of said first portion of said differential output signal and a second portion of said differential output signal and to adjust at least one of a gain associated with said first portion of said

differential output signal and a gain associated with said second portion of said differential output signal based upon said difference to affect a longitudinal balance.

- 11. (Original) The apparatus of claim 10, wherein differential signal is a telecommunications signal.
- 12. (Original) The apparatus of claim 10, wherein said first portion of said differential signal is a tip signal and said second portion of said differential signal is a ring signal.
 - 13. (Original) The apparatus of claim 10, further comprising:
 - a third amplifier to provide said gain associated with said first portion of said differential output signal;
 - a fourth amplifier to provide said gain associated with said second portion of said differential output signal;
 - a first current source electrically coupled to said third amplifier and to said calibration unit, said calibration to control said gain associated with said first portion of said differential output signal by controlling said first current source; and
 - a second current source electrically coupled to said fourth amplifier and to said calibration unit, said calibration to control said gain associated with said second portion of said differential output signal by controlling said second current source.

14. (Original) The apparatus of claim 10, wherein said third amplifier, fourth

amplifier, first current source, second current source, and said calibration unit are housed in a

subscriber line interface circuit (SLIC).

15. (Original) The apparatus of claim 14, further comprising a test load electrically

coupled with an output terminal of a switch.

16. (Original) The apparatus of claim 15, wherein a first input terminal of said switch

is electrically coupled to said first amplifier, wherein said switch is capable of coupling the

output of said first amplifier to said test load.

17. (Original) The apparatus of claim 15, wherein a second input terminal of said

switch is electrically coupled to said second amplifier, wherein said switch is capable of coupling

the output of said second amplifier to said test load.

18. (Original) The apparatus of claim 15, wherein first amplifier, second amplifier,

and said switch are housed in a subscriber line audio-processing circuit (SLAC).

19. (Original) The apparatus of claim 15, wherein said SLIC and said SLAC are

housed on a single integrated circuit chip.

20. (Original) The apparatus of claim 15, wherein said SLIC is housed on a first

integrated circuit chip and said SLAC is housed on a second integrated circuit chip.

21. (Original) A system, comprising:

a subscriber line; and

a line card electronically coupled with said subscriber line, said line card being adapted to:

provide a differential signal;

perform a calibration of a gain of at least a portion of said differential signal to affect the longitudinal balance associated with said differential signal, performing said calibration comprises:

receiving a first portion of said differential signal and determining a gain associated with said first portion;

receiving a second portion of said differential signal and determining a gain associated with said second portion;

determining a difference between the respective gains of said first and second portions to determine whether said difference is outside a predetermined range of tolerance; and

modifying at least of said gain of said first portion and said gain of said second portion based upon a determination that said difference is difference is outside said predetermined range of tolerance.

- 22. (Original) The system of claim 21, further comprising:
- a first amplifier to buffer a first portion of said differential signal and a second amplifier to buffer a second portion of said differential signal to generate a differential output signal; and
- a calibration unit to determine a difference between the gain of said first portion of said differential output signal and a second portion of said differential output signal and to adjust at least one of a gain associated with said first portion of said differential output signal and a gain associated with said second portion of said differential output signal based upon said difference.
- 23. (Original) The system of claim 22, wherein differential signal is a telecommunications signal.
- 24. (Original) The system of claim 22, wherein said first portion of said differential signal is a tip signal and said second portion of said differential signal is a ring signal.
 - 25. (Original) The system of claim 22, further comprising:
 - a third amplifier to provide said gain associated with said first portion of said differential output signal;
 - a fourth amplifier to provide said gain associated with said second portion of said differential output signal;

a first current source electrically coupled to said third amplifier and to said calibration

unit, said calibration to control said gain associated with said first portion of said

differential output signal by controlling said first current source; and

a second current source electrically coupled to said fourth amplifier and to said

calibration unit, said calibration to control said gain associated with said second

portion of said differential output signal by controlling said second current source.

26. (Original) The system of claim 22, wherein said third amplifier, fourth amplifier,

first current source, second current source, and said calibration unit are housed in a subscriber

line interface circuit (SLIC).

27. (Original) The system of claim 26, further comprising a test load electrically

coupled with an output terminal of a switch.

28. (Previously Presented) The system of claim 27, wherein a first input terminal of

said switch is electrically coupled to said first amplifier, wherein said switch is capable of

coupling the output of said first amplifier to said test load.

29. (Previously Presented) The system of claim 27, wherein a second input terminal

of said switch is electrically coupled to said second amplifier, wherein said switch is capable of

coupling the output of said second amplifier to said test load.

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- 30. (Previously Presented) The system of claim 27, wherein first amplifier, second amplifier, and said switch are housed in a subscriber line audio-processing circuit (SLAC).
- 31. (Previously Presented) The system of claim 27, wherein said SLIC and said SLAC are housed within said line card.